

Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

REV 15c

**CHICAGO  ELECTRIC
POWER TOOLS**

1-1/2 HORSEPOWER 7" **BRIDGE** **TILE SAW** WITH STAND

ITEM 97360



Visit our website at: <http://www.harborfreight.com>
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

Copyright© 2007 by Harbor Freight Tools®. All rights reserved.
No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠ WARNING

**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

General Tool Safety Warnings



WARNING Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

1. **KEEP GUARDS IN PLACE** and in working order.
2. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
4. **DO NOT USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
6. **MAKE WORKSHOP KID PROOF** with padlocks, master switches, or by removing starter keys.
7. **DO NOT FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
8. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)

NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH			
	25'	50'	100'	150'
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	Do not use.	

TABLE A

9. **USE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use

the next heavier gauge. The smaller the gauge number, the heavier the cord.

10. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
11. **ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
12. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
13. **DO NOT OVERREACH.** Keep proper footing and balance at all times.
14. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. **DISCONNECT TOOLS** before servicing; when changing accessories, such as blades, bits, cutters, and the like.
16. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.
17. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation.

A guard or other part that is damaged should be properly repaired or replaced.

20. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. **NEVER LEAVE TOOL RUNNING UNATTENDED.** TURN POWER OFF. Don't leave tool until it comes to a complete stop.

GROUNDING INSTRUCTIONS

⚠ WARNING



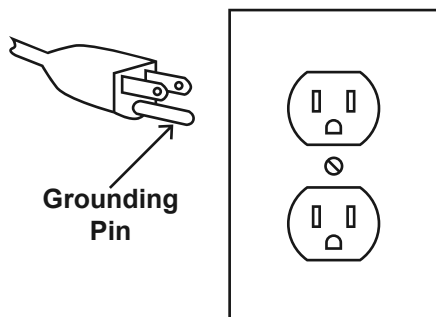
**TO PREVENT
ELECTRIC SHOCK
AND DEATH FROM**

**INCORRECT GROUNDING WIRE
CONNECTION
READ AND FOLLOW THESE
INSTRUCTIONS:**

110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

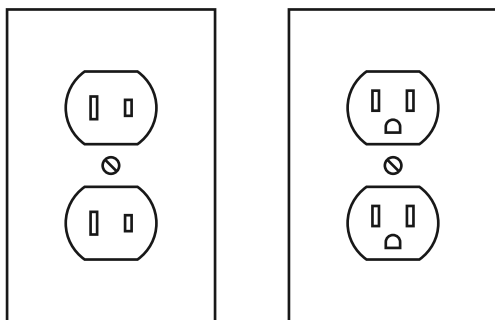
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.



**125 VAC 3-Prong Plug and Outlet
(for up to 125 VAC and up to 15 A)**

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

110-120 VAC Double Insulated Tools: Tools with Two Prong Plugs



Outlets for 2-Prong Plug

1. To reduce the risk of electric shock, double insulated equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one

way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

2. Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. **(See Outlets for 2-Prong Plug.)**

Tile Saw Safety Warnings

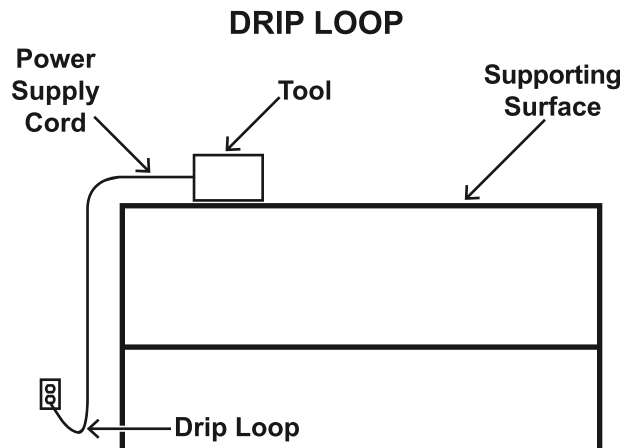
For Your Own Safety Read Instruction Manual Before Operating Saw

1. Wear eye protection.
2. Use saw-blade guard and spreader for every operation for which it can be used, including all through sawing.
3. Keep hands out of the line of saw blade.
4. Know how to reduce risk of kickback.
5. Do not perform any operation freehand.
6. Never reach around or over saw blade.
7. Make sure the workpiece is supported at all times while sawing.
8. To properly understand all safety warnings, be familiar with the following safety terms and equipment:
 - a. Featherboard – A block with “fingers” that hold the workpiece against the fence while sawing.
 - b. Through-sawing – A cut made from one side of a tile to the opposite side, without stopping.
 - c. Freehand – Feeding a workpiece through the saw without using a fence or guided support to guide it. **NOT A SAFE METHOD.**
 - d. Kerf – The gap made by the saw in the workpiece.
 - e. Kickback – A sudden reaction to a pinched, bound, or misaligned blade, causing an uncontrolled workpiece to lift up and out of the saw toward the operator.
 - f. Spreader – A metal plate that follows the saw blade to keep the kerf (gap) from closing on the saw blade. Spreaders, except riving knives, must

be aligned to the blade after blade adjustment to prevent binding.

9. As noted previously, **Kickback** is a sudden reaction to a pinched, bound, or misaligned blade, causing an uncontrolled workpiece to lift up and out of the saw toward the operator. Kickback is usually a result of tool misuse and can be limited or avoided by following the precautions below:
 - Fence must be completely parallel to the saw blade.
 - Workpiece must be free from flaws and from foreign objects.
 - Do not use a dull or damaged blade.
 - Maintain control of the workpiece. Do not allow the workpiece to rest against the moving blade without holding onto it.
 - If the blade binds or a cut is interrupted, turn off the power switch and hold the workpiece still until the blade stops. Correct the cause of blade binding before proceeding.
 - Before continuing an unfinished cut, center the blade in the pre-cut kerf and check that the saw is not engaged into the workpiece before turning on the saw.
 - Push the tile past the blade prior to release.
10. Check guards for proper operation with saw disconnected from power before each use. Do not disable any guard. Do not operate saw if any movable guard does not move freely and close instantly. Make sure any movable guard does not touch the blade in all angles, depths of cut, and positions.
11. Keep the guard in place while through-sawing. Verify that the spreader lines up with the blade to prevent binding.

POSITION OF TILE SAW



1. To avoid the possibility of the tool plug or receptacle getting wet, position tile saw to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. The user should arrange a "drip loop" in the cord connecting the saw to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle.
2. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.

EXTENSION CORDS

3. Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor tools; store indoors while not in use." Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cord before using and replace if damaged. Do not abuse extension cords and do not yank on any cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.
4. **WARNING** – To reduce the risk of electrocution, keep all connections

- dry and off the ground. Do not touch plug with wet hands.
5. Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the tile saw. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.
 6. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**
 7. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
 8. When servicing use only identical replacement parts.
 9. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
 10. Industrial applications must follow OSHA guidelines.
 11. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
 12. Avoid unintentional starting. Prepare to begin work before turning on the tool.
 13. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
 14. WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints
 - Crystalline silica from bricks and cement or other masonry products
 - Arsenic and chromium from chemically treated lumber
 Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, *et seq.*)
 15. WARNING: The cord of this product contains lead and/or di (2-ethylhexyl) phthalate (DEHP), chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, *et seq.*)
 16. WARNING: This product contains di (2-ethylhexyl) phthalate (DEHP), a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. (California Health & Safety Code § 25249.5, *et seq.*)
 17. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous

system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice between different processes.
5. Include vibration-free periods each day of work.
6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
7. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.



**SAVE THESE
INSTRUCTIONS.**

SPECIFICATIONS

Electrical Requirements	120 VAC / 60 Hz / 9.2 A
Motor Speed	3550 RPM
Blade Diameter (Diamond Blade Sold Separately)	7" Diameter / Continuous Rim Blade Rated at 3550 RPM or Greater
Maximum Cutting Capacity	1" @ 45° 1" @ 90°
Maximum Tile Size	Floor and Wall Tiles: 24" x 24" Marble and Brick: 25" long
Saw Bevel Capacity	0° to 45° in 2.5° Increments - Left Tilt Only
Rip Fence Scale	0" to 8-1/4" in 1/8" Increments
Arbor Size	5/8"
Accessories	Two Arbor Nut Wrenches
Switch	Waterproof On/Off Switch



INSTRUCTIONS FOR PUTTING INTO USE



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

WARNING

**TO PREVENT
SERIOUS INJURY
FROM ACCIDENTAL**

OPERATION:

Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

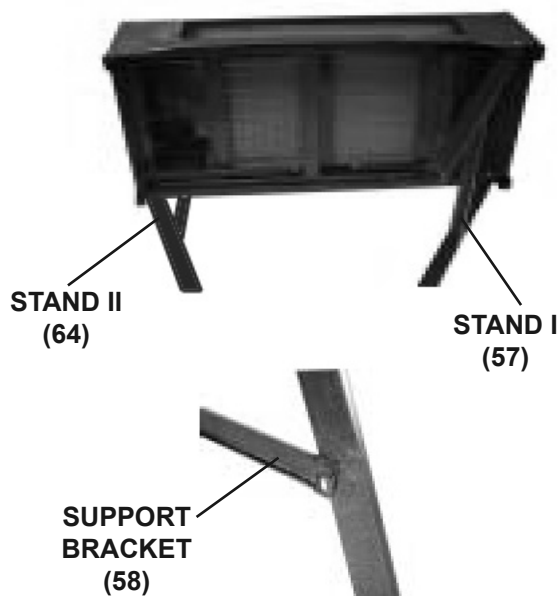
Assembly

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of the manual.

WARNING! Always make sure the Power Switch of the Tile Saw is in its "OFF" position and the unit is unplugged from the electrical outlet *prior* to assembly, adding accessories, or making adjustments to the unit. Be sure to wear heavy-duty work gloves when making any kind of adjustments to the unit.

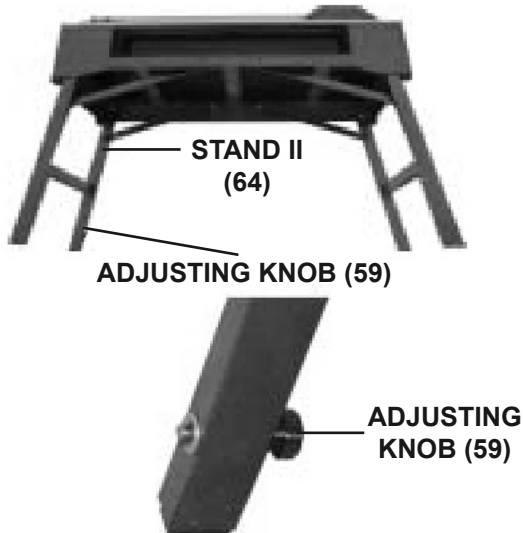
1. Unpack the Tile Saw, and with assistance, carefully lay the tool on its side on a flat, level floor surface.

FIGURE 3



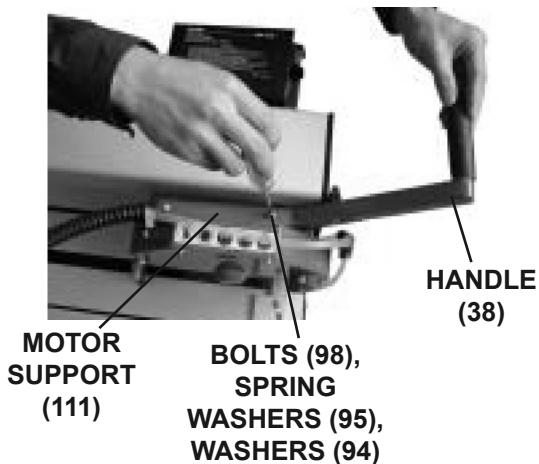
2. Pull out the Stand I (57) and Stand II (64), fully extending the Support Brackets (58). (See Figure 3.)

FIGURE 4



3. With assistance, set the Tile Saw upright. (See Figure 4.)
4. The Adjusting Knob (59) is located at the bottom of Stand II (64). Turn the Adjusting Knob clockwise or counterclockwise to keep the Tile Saw stand balanced evenly on the floor. (See Figure 4.)

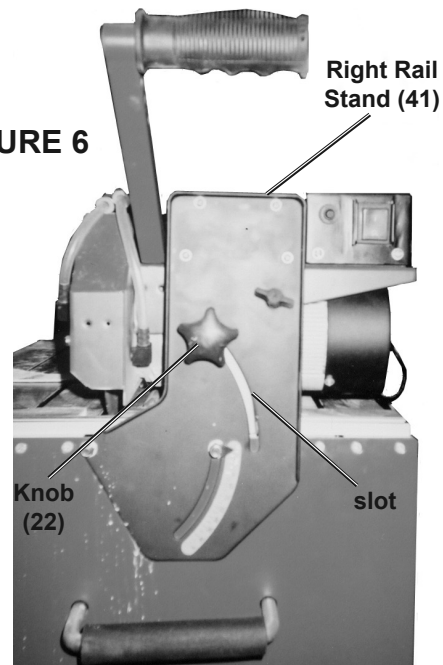
FIGURE 5



5. Attach the Handle (38) to the Motor Support (111), using the Bolts (98), Spring Washers (95), and Washers (94). (See Figure 5.)

To Attach the Knobs:

FIGURE 6



1. Place a Washer (102), Lock Washer (95) and another Washer (102) onto each of the two Knobs (22). (See Figure 6.)
2. Align the Right Rail Stand (41) as shown in Figure 6, above.
3. Remove the shipping screw and attach the Knob (22) through the slot in the Right Rail Stand (41) and into the threaded hole as shown.
4. Repeat for the Left Rail Stand (24) and the other Knob (22).
5. Secure Knobs.

Wheel Assembly

FIGURE 7A

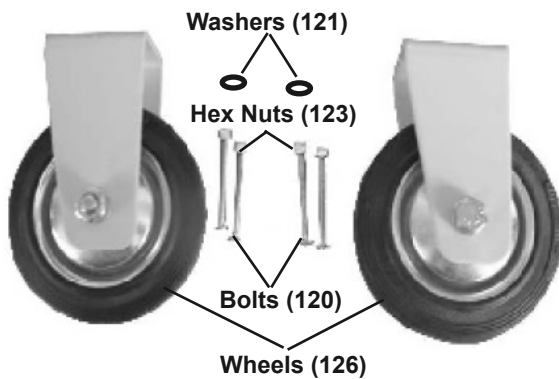
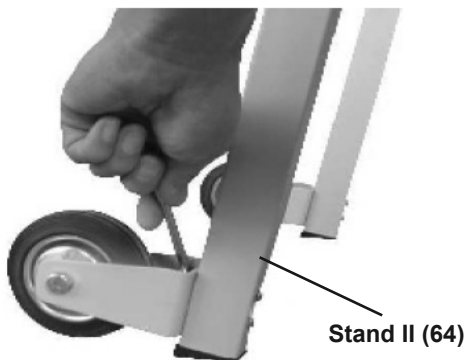


FIGURE 7B



1. The Wheels (126) are connected to the Stand II (64) using Bolts (120), Hex Nuts (123) and Washers (121). (See Figures 7A-7E)

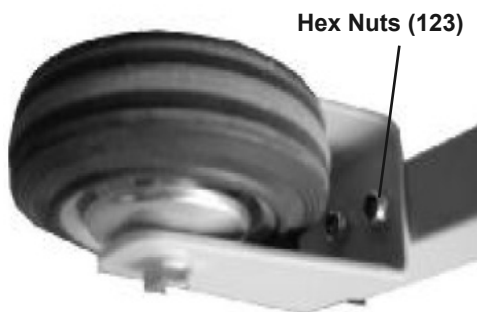


FIGURE 7C

Note: Bolts should be inserted from outside, through the leg stand and into the wheel. Washers and Nuts to be placed onto the Bolts from the wheel side.

FIGURE 7D



FIGURE 7E



2. Lift the saw stand with the front handle to move it, as shown in figure 7E.

OPERATING INSTRUCTIONS



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

⚠ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool to its “OFF” position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

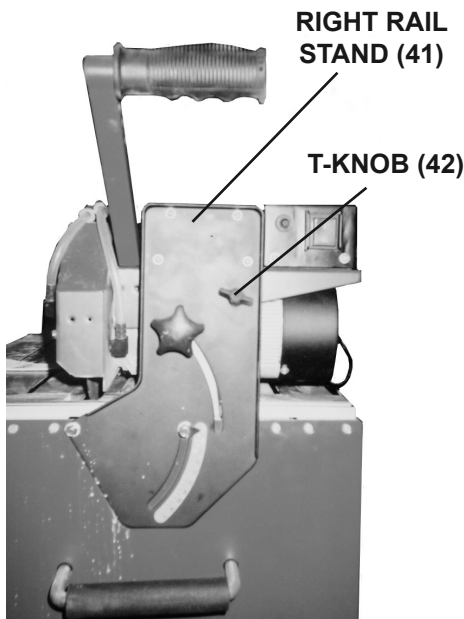


FIGURE 8

Note: The right Rail Stand (41) is held in place by the packaging during shipment. **Always tighten the T-Knob (42) to lock the Rail Stand prior to performing maintenance or relocating the Tile Saw.** (See Figure 8.)

To Fill And Drain The Water Tray:

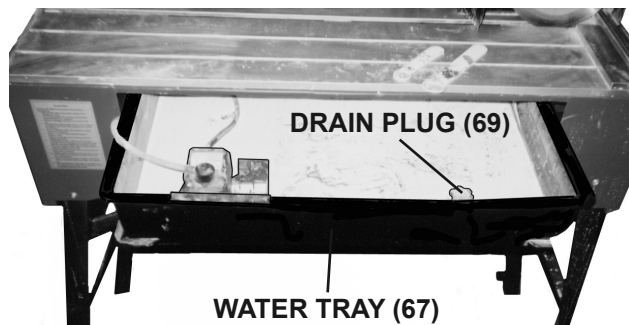


FIGURE 9

1. Fill Water Tray (67) with enough clean, cold water to submerge 3/4 of the Water Pump. Do not overflow the Tray. (See Figure 9.)

NOTE: To prevent excessive wear on the Saw Blade, make sure to maintain a continuous flow of water over the entire Saw Blade while cutting. Never cut anything if the water flow is not continuous.

2. Prior to draining the Water Tray (67) first place a large bucket under the Drain Plug (69). Remove the Drain Plug (69) located at the bottom of the Water Tray. Once drained, replace the Drain Plug. **NOTE:** You may also pull out the Water Tray from the Tile Saw and pour out the water. (See Figure 9.)
3. After draining the water, rinse Tray to remove any silt.

To Make A Straight Cut:

WARNING! Use safety equipment. Always wear eye protection. Wear ANSI approved safety glasses under an ANSI approved full face safety shield and non-skid safety shoes. Hearing and breathing protection must be used for appropriate conditions.

Positioning the Tile

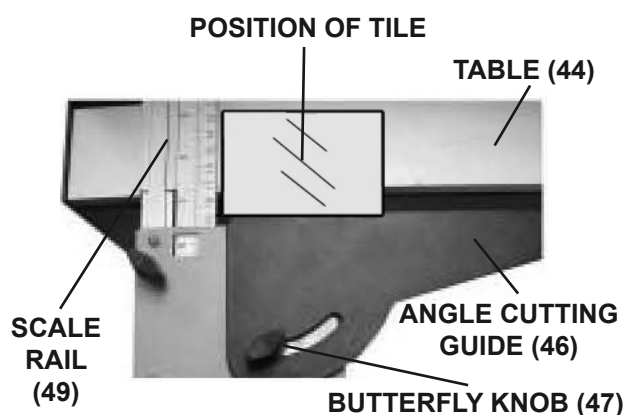


FIGURE 10

1. Loosen the T-Knob (47) on the Angle Cutting Guide (46) and position at 90 degrees on the Scale Rail (49). Then, retighten the T-Knob. (See Figure 10.)
2. To Adjust the gap between the Angle Cutting Guide (46) and the cutting slot in the Table (44), loosen the Butterfly Knob (47) on the Scale Rail (49). Move the Scale Rail to the desired position. Then, retighten the Butterfly Knob on the Scale Rail. (See Figure 10.)
3. Position the tile against the Scale Rail (49) and Angle Cutting Guide (46). (See Figure 10.)
4. Check to make sure the water level in the Water Tray (67) is at the proper level (the Water Pump (7) should be about 3/4 submerged). Then slide in the Water Tray completely. (See Figure 9.)
5. Plug the Power Cable (20) into the nearest 120 volt, grounded, electrical outlet, making sure to form a "drip loop" with the Power Cord. (See page 10.)

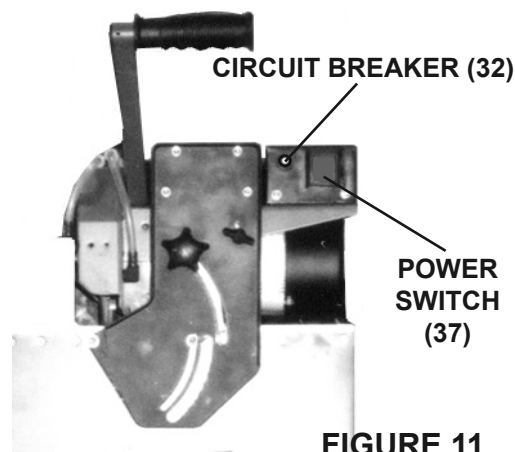


FIGURE 11

6. Turn the Power Switch (37) to its "ON" position, and allow the Saw Blade (4) to spin up to full speed. (See Figure 11.)

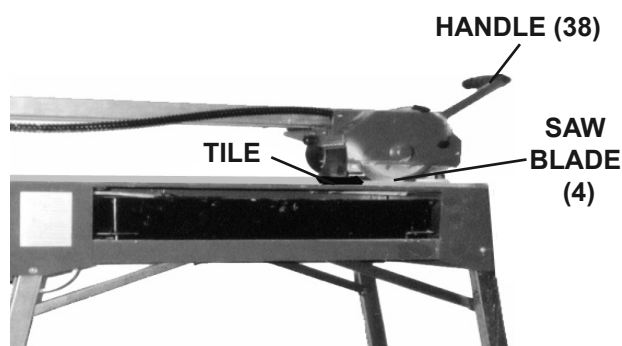


FIGURE 12

7. Hold the tile firmly against the Angle Cutting Guide and Scale Rail (49) with one hand. Always keep fingers a safe distance away from the Blade (4). With the other hand, hold the Handle (38) and slowly move the Saw Blade forward over the tile. (See Figure 12.)
8. Continue moving the Saw Blade (4) over the tile until the cut is completed. (See Figure 12.)
9. Once the cut is completed, turn the Power Switch (37) to its "OFF" position and allow the Saw Blade to stop on its own. Unplug the Power Cord from its electrical outlet. Then, remove the cut tile and debris from the Table (44). (See Figure 11 and Figure 12.)
10. NOTE: If the Motor of the Tile Saw stops suddenly while cutting, turn the Power Switch (37) to its "OFF" position. Wait approximately 5 minutes. While making sure your hands are dry, reset the Circuit

Breaker by pushing in the button. Then, turn the Power Switch to its "ON" position to resume cutting. (See Figure 11.)

Note: If the Pump fails, first try clearing the Filter of debris and make sure it is not plugged. If Pump still does not operate properly, it must be replaced.

To Make A Miter Cut:

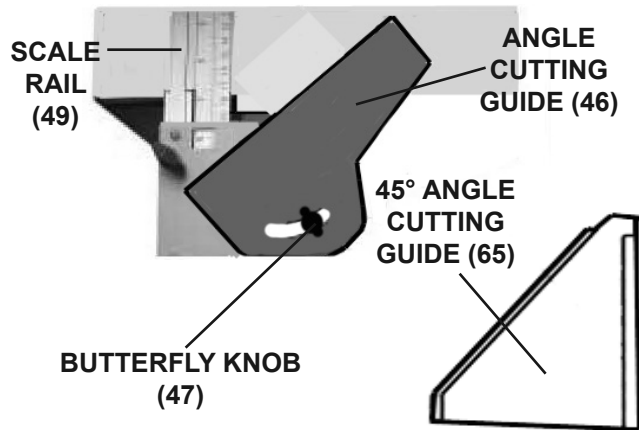
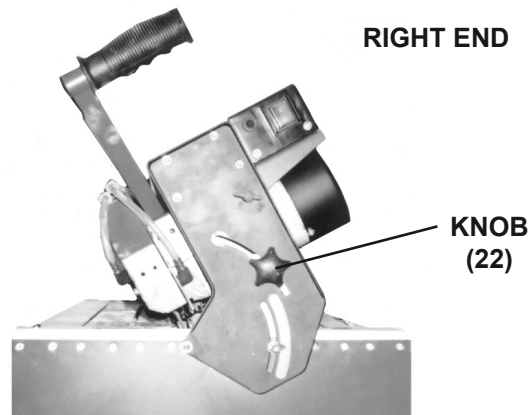


FIGURE 13

1. Loosen the Butterfly Knob (47) on the Angle Cutting Guide (46) and position the Angle Cutting Guide at the desired angle to the Scale Rail (49). Then, retighten the Butterfly Knob (47). (See Figure 13.)
2. For a 45 degree cut, use the 45° Angle Cutting Guide (65) that is included as an accessory item. Hold the tile against the Guide and slide the Guide down the Scale Rail (49). (See Figure 13.)
3. To cut the tile, follow the same procedure as outlined in the section **"To Make A Straight Cut"**.

To Make A Bevel Cut:



LEFT END

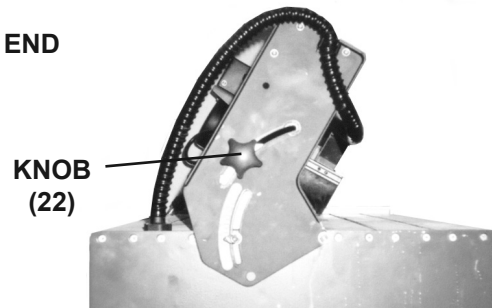


FIGURE 14

1. Loosen the Knob (22) on each end of the Tile Saw. Also loosen 2 Bolts, (located on lower end of each Rail Stand (24 & 41). Tilt the Slide Rail (26) to the desired angle as indicated on the Angle Scale (43). Then, retighten the two Knobs, and two bolts. (See Figure 14.)
2. To cut the tile, follow the same procedure as outlined in the section **"To Make A Straight Cut"**.

To Change The Saw Blade:

WARNING! Make sure the Power Switch (37) of the Tile Saw is in its "OFF" position and that the unit is unplugged from its electrical outlet before performing this procedure.

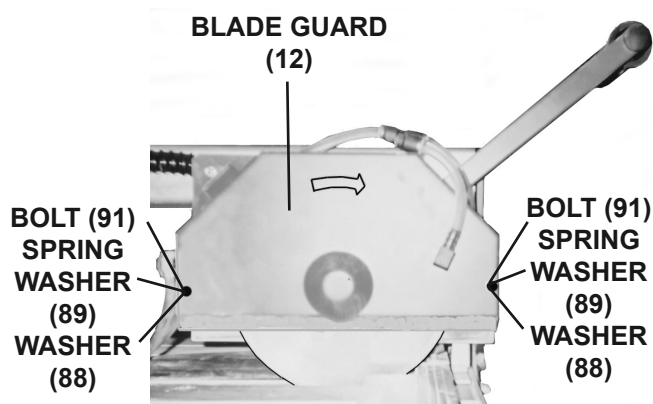


FIGURE 15

1. Remove the Bolts (91), Spring Washers (89), and Washers (88) from the Blade Guard (12). (See Figure 15.)
2. Carefully lift up and move the Blade Guard (12) away from the catch on the top end of the motor support to expose the Saw Blade. (See Figure 16.)
3. **CAUTION!** Wear heavy-duty work gloves to avoid cuts to hands.

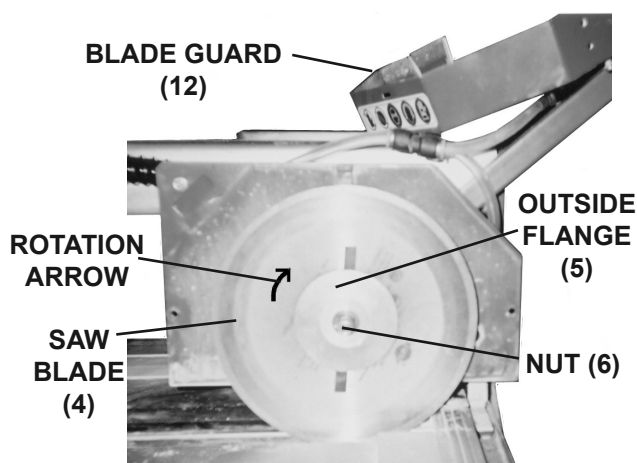
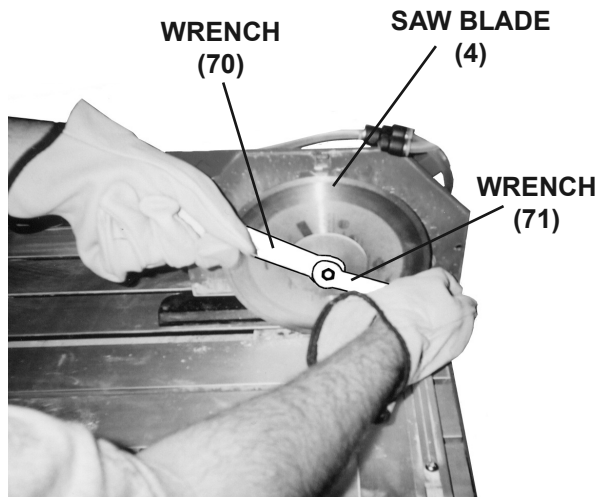


FIGURE 16

4. With one Wrench (71), hold the end of the Motor Spindle firmly and with

the other Wrench (70) provided, unscrew and remove the Nut (6) by turning it clockwise. Next, remove the Outside Flange (5) and remove the old Blade. (See Figures 16 and 17.)



INSIDE
FLANGE
(3)
(DO NOT
REMOVE)

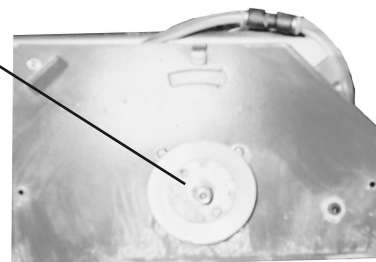


FIGURE 17

5. Install a new Saw Blade (not included). Always use Continuous Rim Diamond Saw Blades with a 7" diameter, 5/8" round arbor hole, and rated at 3550 RPM or higher. (See Figure 16.) **CAUTION!** Never flip over a used Saw Blade.

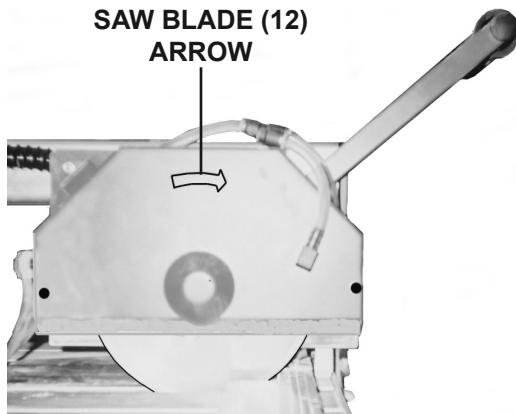
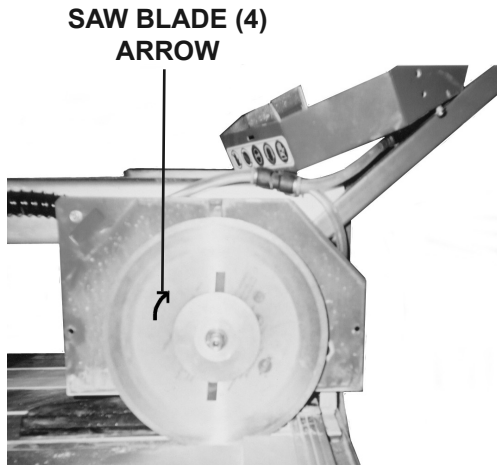


FIGURE 18

6. **IMPORTANT:** When installing a Saw Blade (4), make sure the “ARROW” depicted on the side of the Saw Blade points in the same direction as that of the Blade Guard (12). (See Figure 18.)
7. Once the Saw Blade (4) is installed, reattach the Outside Flange (5) and Nut (6). Fasten the Nut by turning it counterclockwise until snug. Do not overtighten. (See Figure 16.)

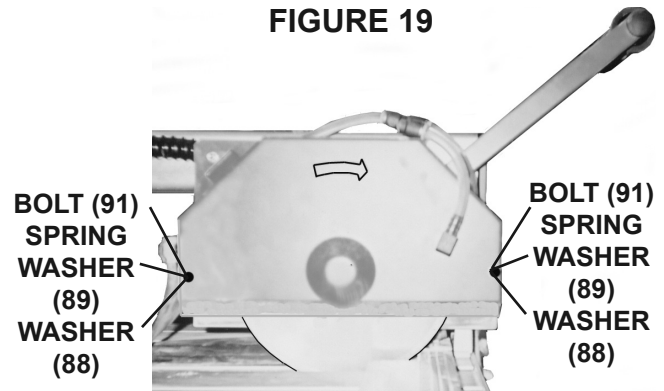


FIGURE 19

8. Carefully lower Blade Guard (12) back into its original position. Then secure Blade Guard in place using the Bolts (91), Spring Washers (89), and Washers (88). (See Figure 19.)

MAINTENANCE AND SERVICING



Procedures not specifically explained in this manual must be performed only by a qualified technician.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool to its “OFF” position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **WARNING!** Make sure the Power Switch (37) of Tile Saw is in its “OFF” position and that unit is unplugged from its electrical outlet before performing any inspection, maintenance, or cleaning procedures. Any service not listed below should only be performed by a qualified technician.
2. Before each use, inspect the general condition of the Tile Saw. Check for loose screws, misalignment or binding of moving parts, damaged electrical wiring, damaged Hoses, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use. Do not use damaged equipment.
3. Before each use, inspect the Saw Blade (4). Using a dull Saw Blade will cause excessive wear on the Motor, and will not produce a satisfactory cut. Replace with a new Saw Blade when needed.
4. Before each use, inspect mounting Screws on all Safety Covers and the Arbor Nut (6) on the Motor Arbor. If necessary, retighten loose hardware.
5. After each use, immediately clean the Water Pump (7) to keep dried debris from sticking to the Filter and Impeller which will obstruct the water flow. To clean the Water Pump, remove the Outer Cover (7A). Remove the Filter. Then, remove the Inner Cover (7C) to expose the Impeller. Use a small brush and clean water to remove any debris on the Filter and Impeller. If necessary, replace the old Filter. When finished, replace the Inner Cover, Filter, and Outer Cover. (See Assy. Diagram.)
6. If water delivery volume is reduced, clean the Filter and the Impeller. If no water is being delivered or is still restricted, the Delivery Tube or Nozzle maybe blocked. If the Pump does not buzz or deliver any water, even when Delivery Tube is disconnected, the Pump may need to be replaced.
7. To replace the Water Pump (7), disconnect the Power Supply Cord and remove the Water Tray (67). Locate the Pump Plug Cover (118) on the inner left side of the Frame. Unscrew and remove the Knob (119), Spring Washer (95), Washer (102), and Lock Nut (107) from the Pump Plug Cover. Remove the Pump Plug Cover to expose the Pump Cable (117). Disconnect the Pump Cable from the Water Pump. Next, disconnect the Pump Connector (115) from the Water Pump. Then, remove the old Water Pump. Install the new Water Pump, following the previously mentioned Steps in reverse order. (See Assy. Diagram.)
8. To clean the exterior parts: Use only a clean cloth and mild detergent to clean the body of the Tile Saw. Use a wet/dry vacuum cleaner or compressed air to clean the Motor (1) ventilation slots. Do not immerse any electrical part of the tool in liquid.
9. Empty all water from Saw before storing. Ice crystals will damage the Pump if the unit contains water in freezing temperatures. Store the Tile Saw indoors in a dry, frost-free room.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start	1. No power at outlet. 2. Cord not connected.	1. Check power at outlet. 2. Check that cord is plugged in.
Blade spins slowly	1. Arbor shaft binding 2. Motor brushes worn	1. Check shaft for free spinning 2. Replace brushes
Excessive vibration	1. Bent or off-balance blade 2. Bent Arbor Shaft	1. Replace blade with new one 2. Check shaft for run-out
Running hot; excess smoke	1. Water flow problem. 2. Not enough water 3. Running with hot/warm water	1. Check connection 2. Add proper amount of water / clean Pump filter. 3. Always run with cold water
 Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.		

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

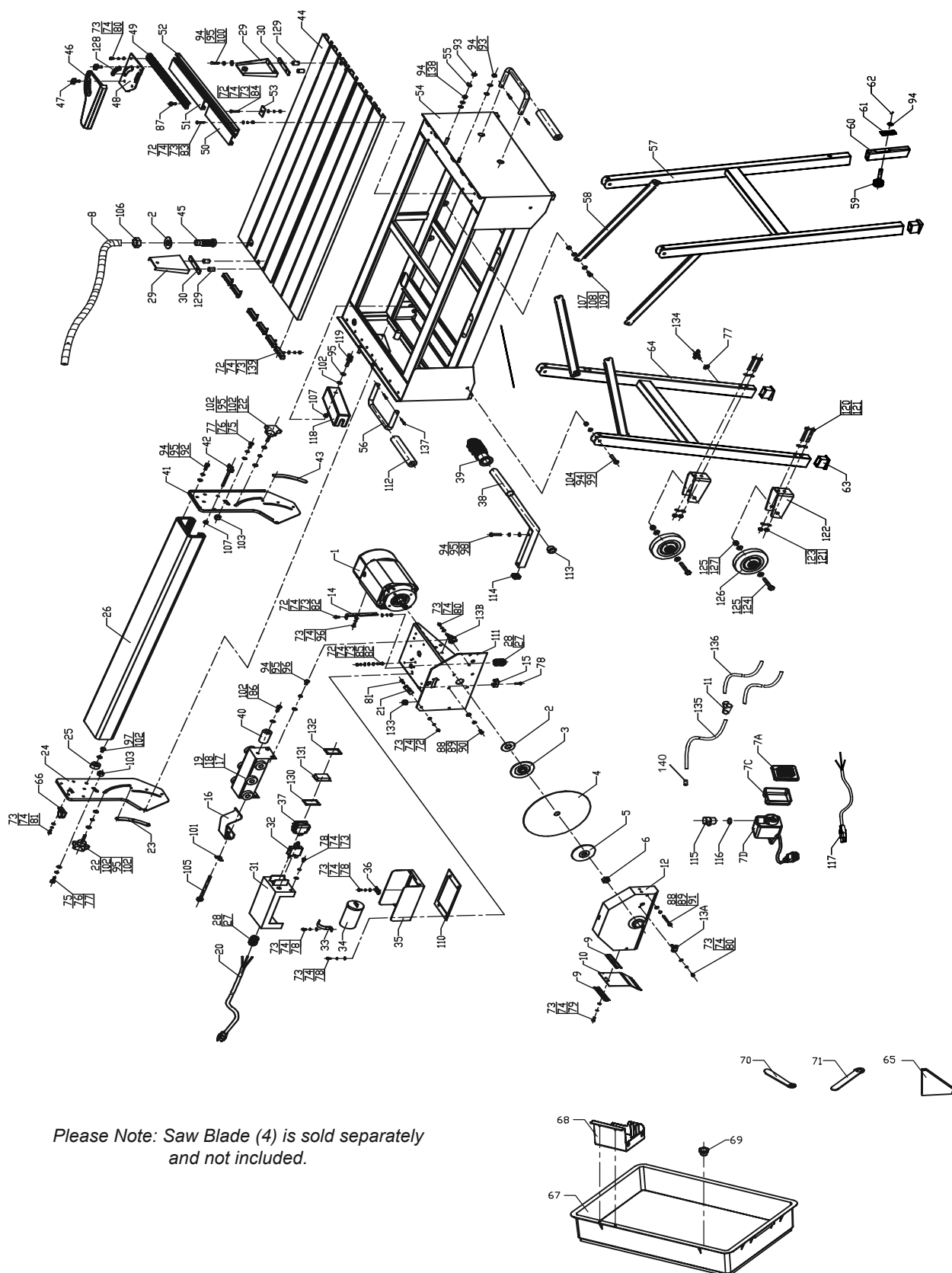
PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST

1	Motor	33	Capacitor Fixture	68	Pump Fixture	104	Hex Nut
2	Motor Cover	34	Capacitor	69	Drain Plug	105	Hex Bolts
3	Inside Flange B	35	Switch Box	70	Wrench	106	Nut
4	Saw Blade (not included)	36	Capacitor Spacer	71	Wrench	107	Hex Nut
5	Outside Flange	37	Power Switch	72	Hex Nut	108	Washer A
6	Hex Nut	38	Handle	73	Washer A	109	Bolt
7A	Outer Cover	39	Handle Grip	74	Lock Washer	110	Control Box Seal
7C	Inner Cover	40	Right Spacer	75	Hex Bolts	111	Motor Support
7D	Pump motor	41	Right Rail Stand	76	Spring Washer	112	Handle Shell
8	Water Tube Cover	42	T-Knob	77	Washer	113	Handle Pad
9	Flap Holder	43	Angle Scale	78	Bolt	114	Handle Pad
10	Flap	44	Table	79	Bolt	115	Pump Connector
11	Three Way Connector	45	Water Tube Connector	80	Bolt	116	O-ring
12	Blade Guard	46	Angle Cutting Guide	81	Bolt	117	Pump Cable
13A	Water Pipe Connector (front)	47	T-Knob	82	Bolt	118	Pump Plug Cover
13B	Water Pipe Connector (Rear)	48	Angle Rule Cushion	83	Bolt	119	Knob
14	Motor Bracket	49	Scale Rail	84	Large Semi-head Bolt	120	Bolt
15	Cable Lock	50	Position Bar	85	Washer	121	Washer A
16	Board Spring	51	Scale	86	Bolt	122	Wheel Fixture
17	Bearing Bracket	52	Rail Stand	87	Bolt	123	Hex Nut
18	Bearings Axle	53	Position Bar Holder	88	Washer A	124	Hex Bolts
19	Bearing	54	Standing Frame	89	Spring Washer	125	Washer A
20	Power Cable	55	Scale Arm	90	Hex Bolts	126	Wheel
21	Water Tube Holder	56	Handle I	91	Bolt	127	Hex Nut
22	Knob (1)	57	Stand	92	Hex Screw	128	Angle Label
23	Angle Scale (Left)	58	Support Bracket	93	Hex Nut	129	Stand Bushing
24	Rail Stand (Left)	59	Adjusting Knob	94	Washer A	130	Spring Washer
25	Spacer (Left)	60	Adjusting Slot	95	Screw	131	Cover
26	Slide Rail	61	Adjusting Pin	96	Bolt	132	Lock
27	Cable Lock Nut	62	Pin	97	Bolt	133	Cable Ring
28	Cable Lock	63	Foot Pad	98	Bolt	134	Butterfly Knob
29	Rail Stand Support	64	Stand II	99	Bolt	135	Long Hose
30	Rail Stand Spacer	65	45° Angle Cutting Guide	100	Hex Bolt	136	Short Hose
31	Switch Cover	66	Round Water Tube Holder	101	Motor Cover	137	Pin
32	Circuit Breaker	67	Water Tray	102	Lock Washer	138	Hex Nut
				103	Bushing	139	Table Support
						140	Tube Connector

ASSEMBLY DIAGRAM



LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

3491 Mission Oaks Blvd. • PO Box 6009 • Camarillo, CA 93011 • 1-888-866-5797